L Number	Hits	Search Text	DB	Time stamp
-	22	tool adj reworking	USPAT;	2003/07/17
		door day reworking	US-PGPUB; IBM_TDB	15:41
-	11	VHDM adj connector	USPAT; US-PGPUB; IBM TDB	2003/12/05 19:14
-	73	tool and (press adj fit adj connector)	USPAT; US-PGPUB;	2003/12/05 19:15
_	17	tool same (press adj fit adj connector)	IBM_TDB USPAT; US-PGPUB;	2003/12/05 19:19
_	. 1	tool near (repair\$3 or rework\$3 or fix\$3) same ((press-fit or (press adj fit)) adj	IBM_TDB USPAT; US-PGPUB;	2003/12/05 19:21
_	1	connector) tool near (repair\$3 or rework\$3 or fix\$3) same ((press-fit or (press adj fit) or	IBM_TDB USPAT; US-PGPUB;	2003/12/05 19:22
_	622	VHDM) adj connector) tool near (repair\$3 or rework\$3 or fix\$3) and connector	IBM_TDB USPAT; US-PGPUB;	2003/12/05 19:21
-	2	tool near (repair\$3 or rework\$3 or fix\$3) and ((press-fit or (press adj fit) or	IBM_TDB USPAT; US-PGPUB;	2003/12/05 19:22
-	74	VHDM) adj connector) tool and ((press-fit or (press adj fit) or VHDM) adj connector)	IBM_TDB USPAT; US-PGPUB;	2003/12/08 11:22
-	38	(device or apparatus or machine or equipment or tool) with (repair\$3 or rework\$3 or fix\$3) and ((press-fit or	IBM_TDB USPAT; US-PGPUB; IBM TDB	2003/12/08 11:06
_	1	(press adj fit) or VHDM) adj connector) 29/854.ccls. and tool and ((press-fit or (press adj fit) or VHDM) adj connector)	USPAT; US-PGPUB;	2003/12/08 11:22
_	4	(29/842,426.2,762,739,740,741,744).ccls. and tool and ((press-fit or (press adj	IBM_TDB USPAT; US-PGPUB;	2003/12/08 11:24
_	4	fit) or VHDM) adj connector) (439/751).ccls. and tool and ((press-fit or (press adj fit) or VHDM) adj	IBM_TDB USPAT; US-PGPUB;	2003/12/08 11:25
-	1	connector) ("6540564").PN.	IBM_TDB USPAT; US-PGPUB;	2003/12/08 11:46
_	1071	(device or apparatus or machine or equipment or tool) with (repair\$3 or	IBM_TDB USPAT; US-PGPUB;	2003/12/08 11:54
_	3	rework\$3) same (connector) (device or apparatus or machine or equipment or tool) with (repair\$3 or rework\$3) same (connector) and ((press-fit or (press adj fit) or VHDM)	IBM_TDB USPAT; US-PGPUB; IBM_TDB	2003/12/08
_	49	adj connector) (device or apparatus or machine or equipment or tool) with (repair\$3 or	USPAT; US-PGPUB;	2003/12/08 12:11
-	1	rework\$3) same (connector) and jaw 439/751.ccls. and (device or apparatus or machine or equipment or tool) with	IBM_TDB USPAT; US-PGPUB;	2003/12/08 12:12
-	0	(repair\$3 or rework\$3) and connector 20030049972.URPN.	IBM_TDB USPAT	2003/12/08
_	281	((press-fit or (press adj fit) or VHDM) adj connector)	USPAT; US-PGPUB;	2003/12/08 12:21
_	0	tool adj removing with ((press-fit or (press adj fit) or VHDM) adj connector)	IBM_TDB USPAT; US-PGPUB;	2003/12/08 12:22
_	0	tool adj removing and ((press-fit or (press adj fit) or VHDM) adj connector)	IBM_TDB USPAT; US-PGPUB; IBM TDB	2003/12/08 12:22

-	74	tool and ((press-fit or (press adj fit)	USPAT;	2003/12/08
		or VHDM) adj connector)	US-PGPUB;	12:23
			IBM_TDB	
-	5	tool and (repair\$3 or remov\$3 or	USPAT;	2003/12/08
		rework\$3) with ((press-fit or (press adj	US-PGPUB;	12:44
	1.5	fit) or VHDM) adj connector)	IBM_TDB	2000 (20 (00
-	15	4619495.URPN.	USPAT	2003/12/08
_	2	housing adj remover and connector	USPAT;	12:38
		liousing aug lemovel and connector	US-PGPUB;	12:46
			IBM TDB	12.40
_	1	("6138345").PN.	USPAT;	2003/12/08
	_	( 020010	US-PGPUB;	12:44
			IBM TDB	
_	13	("4437232"   "4611397"   "4705311"	USPAT	2003/12/08
		"4733459"   "4810018"   "4831721"		12:45
		"5088187"   "5092031"   "5153983"		
		"5160877"   "5195235"   "5509192"		1
		"5724722").PN.		2000 (200
-	4	housing adj remover	USPAT;	2003/12/08
			US-PGPUB; IBM TDB	13:21
_	2	6138345.URPN.	USPAT	2003/12/08
		5255 10.0M2	JULAI	13:07
-	13	("4437232"   "4611397"   "4705311"	USPAT	2003/12/08
	-5	"4733459"   "4810018"   "4831721"		13:08
		"5088187"   "5092031"   "5153983"		
		"5160877"   "5195235"   "5509192"		
	ý.	"5724722").PN.		
-	30	housing near remover	USPAT;	2003/12/08
			US-PGPUB;	13:21
	,		IBM_TDB	2002 (20 (00
-	1	(housing near remover) near tool	USPAT;	2003/12/08
			US-PGPUB;	13:24
_	4950	(hous\$3 or shell near remover) near tool	IBM_TDB USPAT;	2003/12/08
	4930	(nodsys of shell hear femover) hear coor	US-PGPUB;	13:30
			IBM TDB	13.30
-	4855	((house or housing) or shell near	USPAT;	2003/12/08
		remover) near tool	US-PGPUB;	13:29
		· ·	IBM TDB	
-	1	((house or housing) near remover) near	USPAT;	2003/12/08
		too1	US-PGPUB;	13:29
	_	//-1-11	IBM_TDB	0000/20/00
-	0	((shell) near remover) near tool	USPAT;	2003/12/08
			US-PGPUB; IBM TDB	13:29
_	1	((house or housing or shell) near	USPAT;	2003/12/08
		remover) near tool	US-PGPUB;	13:30
			IBM TDB	
-	1	(hous\$3 or shell) near remover near tool	USPAT;	2003/12/08
1			US-PGPUB;	13:30
			IBM_TDB	
-	12	(hous\$3 or shell) near remover and tool	USPAT;	2003/12/08
			US-PGPUB;	13:30
_	263	   (hous\$3 or she11) near extract\$3 and too1	IBM_TDB	2002/12/09
-	203	(nouses of shell) hear extractes and tool	USPAT; US-PGPUB;	2003/12/08
			IBM TDB	13.33
-	0	(hous\$3 or shell) near extract\$3 and tool	USPAT;	2003/12/08
		and ((press-fit or (press adj fit)) adj	US-PGPUB;	13:35
		connector)	IBM_TDB	
-	1	(hous\$3 or shell) near extract\$3 and too1	USPĀT;	2003/12/08
		and ((high adj density) adj connector)	US-PGPUB;	13:36
	_	(1	IBM_TDB	2002/12/00
-	0	(hous\$3 or shell) near extract\$3 and tool	USPAT;	2003/12/08
		and ((vhdm) adj connector)	US-PGPUB; IBM TDB	13:36
_	91	(hous\$3 or shell) near extract\$3 and tool	USPAT;	2003/12/08
	31	and connector	US-PGPUB;	13:43
		with collinator	IBM TDB	-5.15
	L		<del>-</del>	<del></del>

		(#5700 554 #) 700		
-	1	("5790651").PN.	US PAT;	2003/12/08
			US-PGPUB;	13:46
			IBM TDB	
-	10	5790651.URPN.	USPAT	2003/12/08
				13:44
-	0	("(remov\$3nearmodule)andjaw").PN.	USPAT;	2003/12/08
		_	US-PGPUB;	13:47
			IBM TDB	
-	99	(remov\$3 near module) and jaw	USPAT;	2003/12/08
		, , ,	US-PGPUB;	13:47
			IBM TDB	10.17
_	57	(remov\$3 near module) and jaw and	USPAT;	2003/12/08
		connector	US-PGPUB;	13:48
			IBM TDB	13.10
l _	8	("3896533"   "4521959"   "4583287"	USPAT	2003/12/08
	Ů	"4666199"   "4800647"   "4866838"	OSTAT	13:53
		"4873761"   "5062201").PN.		15.55
_	6	· ·	USPAT	2002/12/09
1	Ū	5250145. OKEN.	USPAI	2003/12/08
_	6	5230143.URPN.	IICD N III	13:56
-	•	3230143.URPN.	USPAT	2003/12/08
	10	("3896535"   "4141138"   "4604796"	IIG D D III	14:05
-	10	, , , , , , , , , , , , , , , , , , , ,	USPAT	2003/12/08
		"5075960"   "5230143"   "5265328"		14:06
		"5440803"   "5479669"   "5926948"		
		"6098814").PN.		1 /
-	13	("4437232"   "4611397"   "4705311"	USPAT	2003/12/08
		"4733459"   "4810018"   "4831721"		15:06
		"5088187"   "5092031"   "5153983"		
		"5160877"   "5195235"   "5509192"		
		"5724722").PN.		

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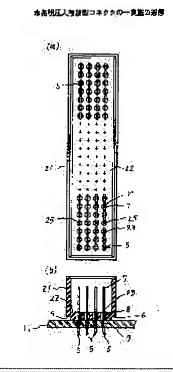
06.09.2001

(72)Inventor: AOKI FUMIO

## (54) PRESS-IN CONNECTION TYPE CONNECTOR AND HOUSING EXTRACTING EQUIPMENT OF THIS CONNECTOR

## (57)Abstract:

PROBLEM TO BE SOLVED: To enable to replace or repair a fault terminal unit or housing of a connector, which is connected by press-in to a circuit board. SOLUTION: By forming a penetrating space 25, which accompanies a shoulder part side in the housing of the connector, to which the housing 21, the shoulder part 8 of the terminal pin 5 is press-inserted, and in which an exterior pressing part 9, which follows a shoulder part, is connected by press-in to the through hole of the circuit board 11, only the housing is removed by pressing the shoulder part with the housing extracting equipment.



## **LEGAL STATUS**

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